



Product designation

Auxiliary
contactor
BF00

Product type designation

Contact characteristics

Number of poles	Nr.	4
Rated insulation voltage U_i IEC/EN	V	690
Rated impulse withstand voltage U_{imp}	kV	6
Operational frequency	min	Hz 25
	max	Hz 400
IEC Conventional free air thermal current I_{th}	A	10
Operational current I_e	AC-1 (=55°C)	A 0
		A 0
Short-time allowable current for 10s (IEC/EN60947-1)	A	0
Protection fuse	gG (IEC)	A 25
Tightening torque for terminals	min	Nm 1.5
	max	Nm 1.8
	min	lbin 1.1
	max	lbin 1.5
Tightening torque for coil terminal	min	Nm 0.8
	max	Nm 1
	min	lbin 0.8
	max	lbin 0.74
Max number of wires simultaneously connectable	Nr.	2
Conductor section	AWG/Kcmil	
	max	10
Flexible w/o lug conductor section	min	mm ² 1
	max	mm ² 6
Flexible c/w lug conductor section	min	mm ² 1
	max	mm ² 4
Flexible with insulated spade lug conductor section	min	mm ² 1
	max	mm ² 4
Power terminal protection according to IEC/EN 60529		IP20 when wired

Mechanical features

Operating position

normal
allowable

Vertical plan
±30°

Fixing				Screw / DIN rail 35mm
Weight	g			354
Conductor section	AWG/kcmil conductor section			
	max			10
Auxiliary contact characteristics				
Thermal current I _{th}	A			10
IEC/EN 60947-5-1 designation				A600 - P600
Operating current AC15				
	230V	A		3
	400V	A		1.9
	500V	A		1.4
Operating current DC12				
	110V	A		5.7
Operating current DC13				
	24V	A		5.7
	48V	A		2.9
	60V	A		2.3
	110V	A		1.25
	125V	A		1.1
	220V	A		0.55
	600V	A		0.2
Operations				
Mechanical life	cycles			20000000
Safety related data				
Performance level B10d according to EN/ISO 13489-1	mechanical load		cycles	20000000
Mirror contacts according to IEC/EN 60947-4-1				YES
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 60Hz	V			120
AC operating voltage	of 60Hz coil powered at 60Hz			
	pick-up			
	min	%Us		80
	max	%Us		110
	drop-out			
	min	%Us		20
	max	%Us		55
AC average coil consumption at 20°C	of 60Hz coil powered at 60Hz			
	in-rush	VA		75
	holding	VA		9
Dissipation at holding =20°C 50Hz	W			2.5
Max cycles frequency				
Mechanical operation	cycles/h			3600
Operating times				
Average time for U _s control	in AC			
	Closing NO			
	min	ms		8
	max	ms		24

Opening NO	min	ms	10
	max	ms	20
Closing NC	min	ms	17
	max	ms	30
Opening NC	min	ms	7
	max	ms	18

UL technical data

General USE

Auxiliary contacts

AC current A 10

Contact rating of auxiliary contacts according to UL

A600 - P600

Ambient conditions

Temperature

Operating temperature

min °C -50
max °C 70

Storage temperature

min °C -60
max °C 80

Max altitude

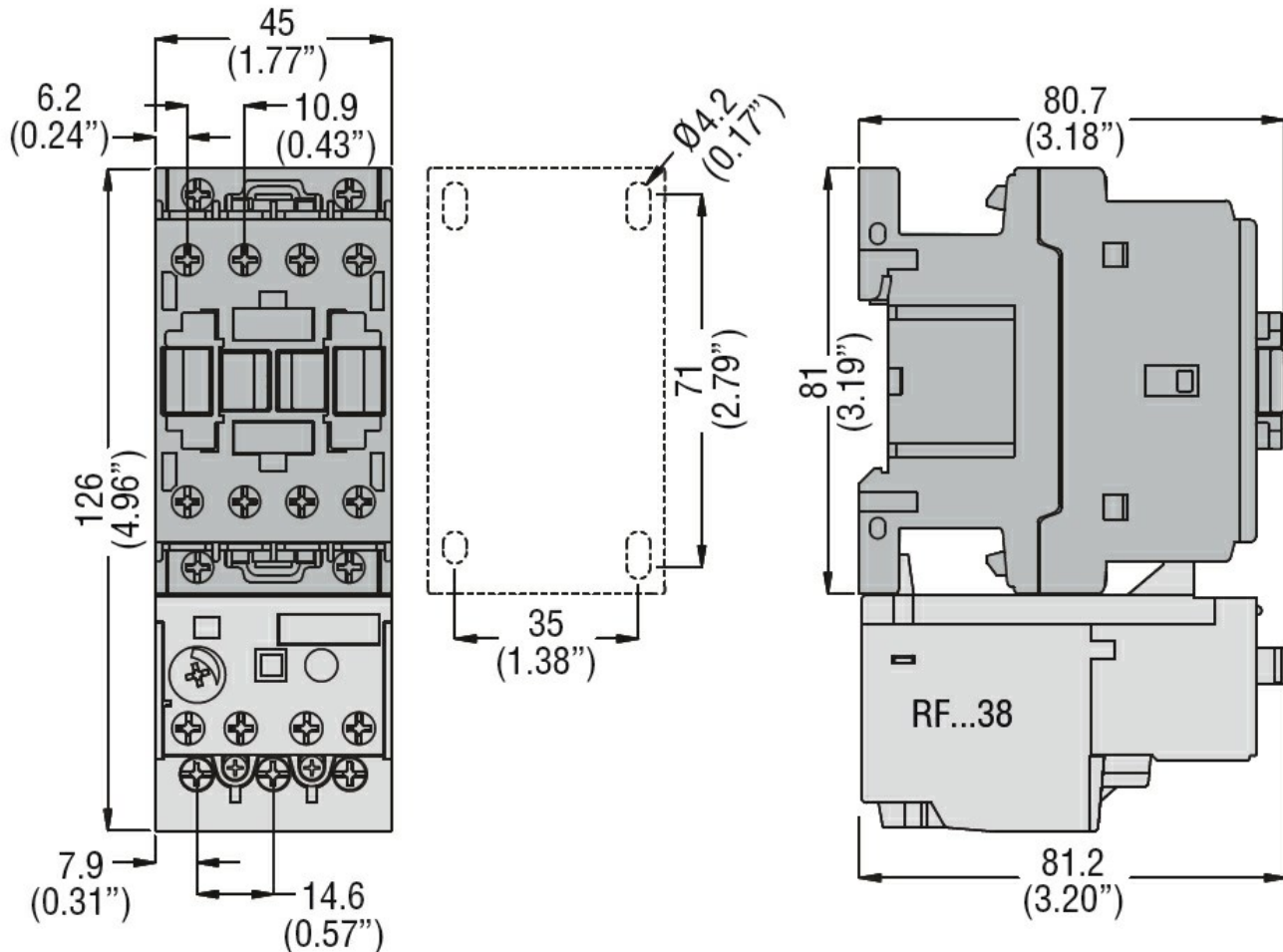
m 3000

Resistance & Protection

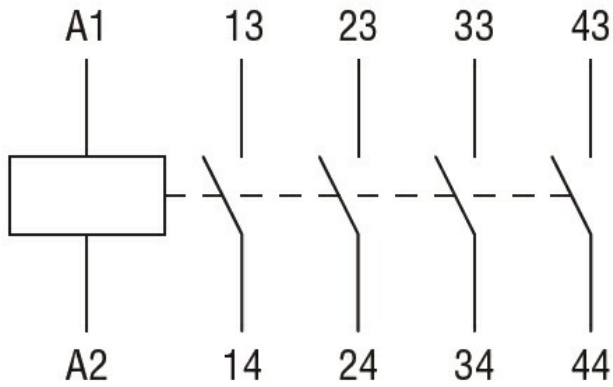
Pollution degree

3

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1
 CSA C22.2 n° 60947-5-1
 IEC/EN 60947-1
 IEC/EN 60947-5-1
 UL 60947-1
 UL 60947-5-1

Certificates

CCC
 cULus
 EAC

ETIM classification

ETIM 8.0

EC000196 -
 Contactor relay